**Name: Peou Tim**

**Assignment #5: Variable Type vs Object Type**

* Due Jul 26 by 11:59pm
* Points 10

**Homework: Variable Type vs Object Type**

1. Which of the followings is considered boxing?

a. double dblx = fx;  
b. float fx = ix;  
**c. object myobjx = fx;**  
d. int ix = objy;

1. Which of the followings is considered unboxing?

a. string str = ix.ToString();  
**b. double dblx =(double) fx;**  
c. object myobjx = fx;  
d. int ix = (int) objy;

1. Object objdblx is of type double. Assign the value of this object to a variable of type float.

**float fx = (float) objdblx;**

1. Object objflx is of type float. Assign the value of this object o another variable of type double.

**double dx = (double) objflx;**

1. Convert the string strx to a double dblx:

**double dblx = double.Parse (strx);**

1. Convert the integer ix to a float fx:

**float fx = int.Parse (ix);**

1. Convert the double dblx to a string strx:

**string strx = Convert.ToString(double dblx)**

1. Object is the   **Base**   class of all other data types.
2. What is an object (the definition)?

**Object, in general, can be describe by their attributes and behavior. Object can also be called an instance of a class.**

1. How do you declare an object in C#?

**You declare an object in C# by creating a class.**

What is the difference between an object and a variable?

**Variable is used as a storage to hold information at any stage of the computation. Variable also has a ‘built in’ type such as int, double, float which can be refer to as value type. Object on the other hand are always a reference type which reference a custom object made using class or collections.**